## Missouri Department of Natural Resources Water Protection Program

- Antidegradation Implementation Procedure Development -

## Antidegradation Evaluation Concept developed by Phil Schroeder based on ideas set forth during the 2/8/06 Advisory Workgroup Meeting

Note: This is not meant to be anything final, just something to help us focus our discussion.

<u>A. Core Issues</u> (the "skeleton") – First attempt to come up with some basic steps to use as the foundation of the procedure development.

The department must answer "YES" to each of these questions before approving a permit involving degradation of the quality of a Tier 2 water:

- 1. Is a discharge necessary, i.e. are no-discharge options unavailable?
- 2. Are the Technology-Based requirements met (EPA's effluent limitation guidelines)?
- 3. Has the state implemented a Watershed Management Plan for non-point source discharges within the watershed of the proposed discharge?
- 4. Will the discharge create a significant increase in one or more pollutants within the receiving (classified) water body?
- 5. Determine the treatment needed and associated costs to eliminate the measurable increase. Based on that determination, would overall cost for treatment create a substantial socioeconomic burden within the community served by the proposed new or modified facility?
- 6. Adjust treatment design to meet socio-economic conditions. Establish loading limits for each increasing pollutant only to the extent needed to eliminate the socio-economic impact. Will the adjusted design <u>not</u> violate water quality standards (general and numeric criteria)?
- 7. Can a State Operating Permit be written based on the adjusted treatment design, i.e. there are no other regulatory restrictions to issuance?

## **<u>B. Peripheral Issues</u>** – use to "flesh out" the skeleton.

- 1. To what extent do we (or the applicants) investigate alternatives for no or reduced discharge?
- 2. What is required for "implementation" of a Watershed Management Plan? That is, must Best Management Practices be in place and effective, or does having a finalized and active (implemented) plan satisfy this requirement?
- 3. What is meant by a "significant" increase in pollutants? Should it mean anything measurable, or should the procedure set a standard for an allowable increase such as percent of assimilative capacity or percent of an existing pollutant load?
- 4. What is considered a "substantial" socio-economic burden? For example, is it any new requirement posing a likely increase of more than 2% of the median household income of the citizens served by the treatment facility?
- 5. How do we assure appropriate calculations of cost for treatment?
- 6. How will we assure that adjusted treatment design will not violate water quality standards?
- 7. What level of public participation will be afforded on each of the decisions above?

- 8. What changes in procedures, if any, should the department make in overseeing compliance with permits issued to limit degradation?
- 9. What changes, if any, should the department make in its procedures to identify and classify new waters for an Outstanding National or State Resource Waters?
- 10. How will the department determine the current loads of pollutants to a water body without baseline water quality data on the water? For example, should we extrapolate from other data such as geology, land use, etc.?
- 11. In answering Question A.4., should the pollutants measured for increases be only those associated with designated uses, or should the department include pollutants which can effect undesignated but <u>existing</u> uses?
- 12. How does antidegradation extend to unclassified waters?
- 13. How does antidegradation protect Rare and Endangered Species?
- 14. How will the department initially determine Tier 1 from Tier 2? For example, will it be based solely on the current level of water quality such that any water above standards qualifies as Tier 2?
- 15. How will the department manage the accumulative effects of degradation approvals?